Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#26: Circumference of Circles

Geometry

Due Date: Friday, Oct. 18th, 2013

**Failure to show work on all problems or use complete sentences will result in a LaSalle. *Round to hundredths!***

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| --- | --- | --- | --- | --- | --- |
| 1) Find the circumference of the circle below: | 2) Find the circumference of the circle below: | | | | 3) A car tire has a circumference of 64 inches. What is the diameter of the wheel? What is the radius? |
| 4) The perimeter of a rectangle is 42 centimeters. The width of the rectangle is twice as long as its length. Find the length and width of the rectangle. | | | 5) Linoleum floor tiles are each 1-foot square. What is the minimum number of these tiles needed to tile the entire floor of a 13-foot-by-15-foot rectangular kitchen and a 6-foot-by-8-foot rectangular bathroom? | | |
| 6) Find the radius and diameter of a circle if the area is 359.7 yd2 How many 1 foot by 1 foot tiles would be needed to cover both a floor that is 15 feet by 9 feet and a 4 foot by 8 foot long hallway? | | 7) A square has area of 169 in2. Find the side length and perimeter of the square. | | 8) What is the circumference of the circle? | |
| 9) Solve for *x:*  8 ft.  4 ft.  1 ft. | | | 10) A cut is made from the bottom of a 4 foot by 8 foot rectangle so that it leaves a 1 foot strip along the remaining sides as shown in the diagram below. What is the perimeter of the remaining portion of the rectangle? | | |

GRASP REVIEW!(Mind the GAP with complete sentences!)

To buy a ticket for a weekly state lottery, a person selects 6 integers from 1 to 36, the order not being important. There are 1947792 such combinations of six digits. Alex and nine friends want to win the lottery by buying every possible ticket (all 1947792 combinations), and plan to spend 16 hours a day doing it. Assume that each person buys one ticket every five seconds. What do you think of this plan? Can the project be completed within a week?

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